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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
4	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
5	TACK COAT	Rate of spread	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Date: 06-07-22

Lab ID	:	**CP-RW-2023-04-27-40**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-07-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	225	225	2.0	98.0	95-100
22.4	2585	2810	25.5	74.5	60-80
11.2	2245	5055	46.0	54.0	40-60
4.75	2189	7244	65.9	34.1	25-40
2.36	1525	8769	79.7	20.3	15-30
0.6	1225	9994	90.9	9.1	8-22
0.075	638	10632	96.7	3.3	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2023-04-27-40** **Date: 06-07-22**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06

Agency : Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72

Customer Reference : EE(Project)/Ynk Zone/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 04-07-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	402	402	3.7	96.3	95-100
22.4	2189	2591	23.6	76.4	60-80
11.2	2056	4647	42.2	57.8	40-60
4.75	2165	6812	61.9	38.1	25-40
2.36	1535	8347	75.9	24.1	15-30
0.6	1589	9936	90.3	9.7	8-22
0.075	596	10532	95.7	4.3	0-5

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TEST RESULTS OF GRADATION FOR WMM

Date: 06-07-22

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Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
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Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-07-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	425	425	3.9	96.1	95-100
22.4	2056	2481	22.6	77.4	60-80
11.2	1956	4437	40.3	59.7	40-60
4.75	2285	6722	61.1	38.9	25-40
2.36	1469	8191	74.5	25.5	15-30
0.6	1720	9911	90.1	9.9	8-22
0.075	756	10667	97.0	3.0	0-5

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Date: 06-07-22

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Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-07-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	430	430	3.9	96.1	95-100
22.4	2245	2675	24.3	75.7	60-80
11.2	1869	4544	41.3	58.7	40-60
4.75	2145	6689	60.8	39.2	25-40
2.36	1369	8058	73.3	26.7	15-30
0.6	820	8878	80.7	19.3	8-22
0.075	1765	10643	96.8	3.2	0-5

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TEST RESULTS OF GRADATION FOR WMM

Date: 06-07-22

Lab ID	:	**CP-RW-2023-04-27-40**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-07-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	431	431	3.9	96.1	95-100
22.4	2245	2676	24.3	75.7	60-80
11.2	1869	4545	41.3	58.7	40-60
4.75	2145	6690	60.8	39.2	25-40
2.36	1369	8059	73.3	26.7	15-30
0.6	820	8879	80.7	19.3	8-22
0.075	1765	10644	96.8	3.2	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Date: 06-07-22

Lab ID	:	**CP-RW-2023-04-27-40**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	04-07-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.7	300.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.7	73.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	229.5	227.0
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	23.5	24.4
6	Aggregate impact value (Mean of two tests)	Pecentage	24.0	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2023-04-27-40** **Date: 06-07-22**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06

Agency : Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72

Customer Reference : EE(Project)/Ynk Zone/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 04-07-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
Combined Flakiness and Elongation Index for WMM	25.0%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2023-04-27-40** **Date: 06-07-22**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06

Agency : Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72

Customer Reference : EE(Project)/Ynk Zone/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 04-07-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	25.5%	

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TEST RESULTS OF GRADATION FOR WMM

Date: 25-03-23

Lab ID	:	**CP-RW-2023-04-27-40**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	23-03-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	410	410	3.7	96.3	95-100
22.4	2298	2708	24.6	75.4	60-80
11.2	1796	4504	40.9	59.1	40-60
4.75	2156	6660	60.5	39.5	25-40
2.36	1258	7918	72.0	28.0	15-30
0.6	860	8778	79.8	20.2	8-22
0.075	1798	10576	96.1	3.9	0-5

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Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	23-03-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	225	225	2.0	98.0	95-100
22.4	2585	2810	25.5	74.5	60-80
11.2	2245	5055	46.0	54.0	40-60
4.75	2189	7244	65.9	34.1	25-40
2.36	1525	8769	79.7	20.3	15-30
0.6	1225	9994	90.9	9.1	8-22
0.075	638	10632	96.7	3.3	0-5

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Lab ID	:	**CP-RW-2023-04-27-40** **Date: 25-03-23**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	23-03-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	402	402	3.7	96.3	95-100
22.4	2189	2591	23.6	76.4	60-80
11.2	2056	4647	42.2	57.8	40-60
4.75	2165	6812	61.9	38.1	25-40
2.36	1535	8347	75.9	24.1	15-30
0.6	1589	9936	90.3	9.7	8-22
0.075	596	10532	95.7	4.3	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2023-04-27-40** **Date: 25-03-23**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06

Agency : Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72

Customer Reference : EE(Project)/Ynk Zone/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 23-03-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	425	425	3.9	96.1	95-100
22.4	2056	2481	22.6	77.4	60-80
11.2	1956	4437	40.3	59.7	40-60
4.75	2285	6722	61.1	38.9	25-40
2.36	1469	8191	74.5	25.5	15-30
0.6	1720	9911	90.1	9.9	8-22
0.075	756	10667	97.0	3.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-04-27-40** **Date: 25-03-23**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	23-03-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	351	351	3.2	96.8	95-100
22.4	2245	2596	23.6	76.4	60-80
11.2	2014	4610	41.9	58.1	40-60
4.75	2145	6755	61.4	38.6	25-40
2.36	1369	8124	73.9	26.1	15-30
0.6	820	8944	81.3	18.7	8-22
0.075	1765	10709	97.4	2.6	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-04-27-40**	**Date: 25-03-23**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06	
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72	
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-03-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	23-03-23	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.5	302.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.9	77.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	226.1	224.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	25.1	25.7
6	Aggregate impact value (Mean of two tests)	Pecentage	25.4	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-27-40** **Date: 25-03-23**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	23-03-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
Combined Flakiness and Elongation Index for WMM	24.6%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 25-03-23

Lab ID	:	**CP-RW-2023-04-27-40**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	23-03-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.4%	
Combined Flakiness and Elongation Index for WMM	20.3%	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-27-40**	**Date: 14-07-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli surrounding areas in ward no.06	
Agency	:	Sri. Puttaswamy Gowda, #36/K, 1st Cross, 3rd Main, VHBCS, nagarbhavi, 9th Block, Bangalore-72	
Customer Reference	:	EE(Project)/Ynk Zone/WO/143/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-07-22	
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)	
Date of Test	:	12-07-22	
Weight of Sample	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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